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1 [Industry/government track papers: V-Miner: using enhanced parallel coordinates to mine product design and test data](#)

Kaidi Zhao, Bing Liu, Thomas M. Tirpak, Andreas Schaller

 August 2004 **Proceedings of the tenth ACM SIGKDD international conference on Knowledge discovery and data mining KDD '04**

 Full text available: [pdf\(1.16 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Analyzing data to find trends, correlations, and stable patterns is an important task in many industrial applications. This paper proposes a new technique based on parallel coordinate visualization. Previous work on parallel coordinate methods has shown that they are effective only when variables that are correlated and/or show similar patterns are displayed adjacently. Although current parallel coordinate tools allow the user to manually rearrange the order of variables, this process is very ti ...

Keywords: change patterns, parallel coordinate visualization, rules

2 [Special section: Reasoning about structure, behavior and function](#)

B. Chandrasekaran, Rob Milne

 July 1985 **ACM SIGART Bulletin**, Issue 93

 Full text available: [pdf\(5.13 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

The last several years' of work in the area of knowledge-based systems has resulted in a deeper understanding of the potentials of the current generation of ideas, but more importantly, also about their limitations and the need for research both in a broader framework as well as in new directions. The following ideas seem to us to be worthy of note in this connection.

3 [Senseable: a wireless object tracking platform for tangible user interfaces](#)

James Patten, Hiroshi Ishii, Jim Hines, Gian Pangaro

 March 2001 **Proceedings of the SIGCHI conference on Human factors in computing systems**

 Full text available: [pdf\(666.23 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present a system that electromagnetically tracks the positions and orientations of multiple wireless objects on a tabletop display surface. The system offers